

Title (en)

DOWNHOLE CIRCULATION VALVE AND METHOD FOR OPERATING THE SAME

Publication

EP 0223552 B1 19920115 (EN)

Application

EP 86308808 A 19861112

Priority

US 79737585 A 19851112

Abstract (en)

[origin: US4657082A] Pressure operated circulation valve and method for using the same. A cylindrical housing has an open longitudinal passageway therethrough and a circulation port disposed through a wall thereof. A valve mandrel is slidably received in the housing and is moveable between a position in which fluid may be circulated only between the passageway and the exterior of the housing, a position in which fluid may be circulated only between the exterior of the housing and the passageway, and a position in which fluid may not be circulated in either direction. An annular piston is operatively connected to the valve mandrel and has a first side exposed to pressure exterior of the housing and a second side expose to pressure interior of the housing to permit movement of the valve mandrel to its various positions by application of pressure to the interior and exterior of the housing.

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E21B 34/10

IPC 8 full level

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CPC (source: EP US)

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Cited by

GB2311315A; GB2309470A; GB2309470B; GB2302895A; US5890540A; GB2302895B; US7416029B2

Designated contracting state (EPC)

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DOCDB simple family (publication)

US 4657082 A 19870414; AU 587654 B2 19890824; AU 6503886 A 19870514; CA 1287567 C 19910813; DE 3683457 D1 19920227; EP 0223552 A2 19870527; EP 0223552 A3 19890322; EP 0223552 B1 19920115; ES 2027962 T3 19920701; NO 864487 D0 19861111; NO 864487 L 19870513; SG 33892 G 19920522

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